

LIST OF REFERENCES CITED BY APPLICANT

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ATTY. DOCKET NO.

8951-124-999

APPLICATION NO.

09/536,551

APPLICANT

Morré and Morré

FILING DATE

March 28, 2000

GROUP

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
XQW	AA	5,605,810	2/25/97	Morré et al.			
	AB	5,565,324	10/15/96	Still et al.			
XQW	AC	5,093,246	3/3/92	Cech et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

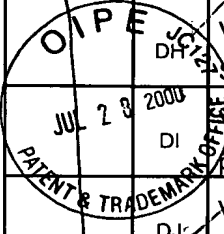
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

XQW	AD	Aejmelaeus et al., 1997, "Ubiquinol-10 and total peroxyl radical trapping capacity of LDL lipoproteins during aging: the effects of Q-10 supplementation", Mol Aspects Med 18 Suppl:S113-20						
	AE	Andersson et al., 1994, "Modulations in hepatic branch-point enzymes involved in isoprenoid biosynthesis upon dietary and drug treatments of rats", Biochim Biophys Acta 1214(1):79-87						
	AF	Appelkvist et al., 1994, "Regulation of coenzyme Q biosynthesis", Mol Aspects Med 15 Suppl :s37-46						
	AG	Arnheim and Cortopassi, 1992, "Deleterious mitochondrial DNA mutations accumulate in aging human tissues", Mutat Res. 275(3-6):157-67						
	AH	✓ Arroyo et al., 1998, "Ubiquinol regeneration by plasma membrane ubiquinone reductase", Protoplasma 205:107-113						
	AI	✓ Aruoma, 1996, "Characterization of drugs as antioxidant prophylactics", Free Rad Biol Med 20:675-705						
	AJ	Austin, 1997, "Recent progress in treatment and secondary prevention of breast cancer with supplements", Alt Med Rev 2"4-11						
	AK	Balcavage and Alvager, 1982, "Reaction of malonaldehyde with mitochondrial membranes", Mech Ageing Dev.19(2):159-7						
	AL	Battino et al., 1995, "Coenzyme Q content in synaptic and non-synaptic mitochondria from different brain regions in the ageing rat", Mech Ageing Dev 78(3):173-87						
	AM	Beyer, 1994, "The role of ascorbate in antioxidant protection of biomembranes: interaction with vitamin E and coenzyme Q", J Bioenerg Biomembr 26(4):349-58						
	AN	✓ Beyer et al., 1997, "The two-electron quinone reductase DT-diaphorase generates and maintains the antioxidant (reduced) form of coenzyme Q in membranes", Mol Aspects Med 18 Suppl:S15-23						
	AO	✓ Beyer and Ernster, 1990, Highlights of Ubiquinone Research (Taylor & Francis, London) pp. 191-213						
XQW	AP	✓ Beyer et al., 1996, "The role of DT-diaphorase in the maintenance of the reduced antioxidant form of coenzyme Q in membrane systems", Proc Natl Acad Sci USA 93(6):2528-32						

XQW	AQ	Beyer et al., 1985, "Tissue coenzyme Q (ubiquinol) and protein concentrations over the life span of the laboratory rat", Mech Ageing Dev 32(2-3):267-81
	AR	Blanchard and Hood, 1996, "Sequence to array: probing the genome's secrets", Nat Biotechnol 14(13):1649
	AS	Boffoli et al., 1994, "Decline with age of the respiratory chain activity in human skeletal muscle", Biochim Biophys Acta. 1226(1):73-82
	AT	Boveris et al., 1972, "The cellular production of hydrogen peroxide", Biochem J. 128(3):617-30
	AU	Brightman et al., 1992, "A growth factor- and hormone-stimulated NADH oxidase from rat liver plasma membrane", Biochim Biophys Acta 1105(1):109-17
	AV	Brown, 1995, "Amyotrophic lateral sclerosis: recent insights from genetics and transgenic mice", Cell 80(5):687-92
	AW	Bruno et al., 1992, "Stimulation of NADH oxidase activity from rat liver plasma membranes by growth factors and hormones is decreased or absent with hepatoma plasma membranes", Biochem J. 284 (3):625-8
	AX	Chueh et al., 1997, "The hormone-responsive NADH oxidase of the plant plasma membrane has properties of a NADH:protein disulfide reductase", J Biol Chem 272(17):11221-7
	AY	Chueh et al., 1997, "A 33.5-kDa heat- and protease-resistant NADH oxidase inhibited by capsaicin from sera of cancer patients", Arch Biochem Biophys 342(1):38-47
	AZ	Crane and Morré, 1977, Biomedical and Clinical Aspects of Coenzyme Q (Elsevier Scientific, New York) pp. 3-14
	BA	Crane and Barr, 1985, Coenzyme Q (John Wiley & Sons, Chichester) pp.1-37
	BB	Dai et al., 1997, "Inhibition of plasma membrane NADH oxidase activity and growth of HeLa cells by natural and synthetic retinoids", Mol Cell Biochem 166(1-2):101-9
	BC	de Grey, 1998, "Age-related oxidative stress: A mechanism proposed to explain the rise in oxidative stress during aging", J. Anti-Aging Med. 1(1):53-66
	BD	de Grey, 1997 "A proposed refinement of the mitochondrial free radical theory of aging", Bioessays 19(2):161-6
	BE	DeHahn et al., 1997, "NADH oxidase activity present on both the external and internal surfaces of soybean plasma membranes", Biochim Biophys Acta 1328:99-108
	BF	Deng et al., 1993, "Amyotrophic lateral sclerosis and structural defects in Cu,Zn superoxide dismutase", Science 261(5124):1047-51
	BG	Ernster et al., 1992, "The mode of action of lipid-soluble antioxidants in biological membranes: relationship between the effects of ubiquinol and vitamin E as inhibitors of lipid peroxidation in submitochondrial particles", Biofactors 3(4):241-8
	BH	Ernster and Dallner, 1995, "Biochemical, physiological and medical aspects of ubiquinone function", Biochim Biophys Acta 24:1271(1):195-204
	BI	Fields and Song, 1989, "A novel genetic system to detect protein-protein interactions", Nature 340(6230):245-6
	BJ	Gaby, 1996, "The role of Coenzyme Q10 in clinical medicine: Part I", Alt Med Rev 1:11-17
	BK	Genova et al., 1995, "Major changes in complex I activity in mitochondria from aged rats may not be detected by direct assay of NADH:coenzyme Q reductase", Biochem J 311 (Pt 1):105-9
	BL	Gorman et al., 1997, "Role of peroxide and superoxide anion during tumour cell apoptosis", FEBS Lett. 404(1):27-33
	BM	Harman et al., 1972, "The biologic clock: the mitochondria?", J Am Geriatr Soc. 20(4):145-7

HW	BN	Hershko, 1992, "Iron chelators in medicine", Mol Aspects Med 13(2):113-65
	BO	Jenner, 1991, "Oxidative stress as a cause of Parkinson's disease", Acta Neurol Scand Suppl 136:6-15
	BP	Kagan et al., 1990, "Antioxidant effects of ubiquinones in microsomes and mitochondria are mediated by tocopherol recycling", Biochem Biophys Res Commun 169(3):851-7
	BO	Kalen et al., 1990, "Uptake and metabolism of dolichol and cholesterol in perfused rat liver", Lipids 25(2):93-9
		Kalen et al., 1987, "Ubiquinone biosynthesis by the microsomal fraction from rat liver", Biochim Biophys Acta 926(1):70-8
	BS	Kennedy and Lyons, 1997, "Glycation, oxidation, and lipoxidation in the development of diabetic complications", Metabolism 46(12 Suppl 1):14-21
	BT	Kishi et al., 1999, "The plasma membrane NADH oxidase of HeLa cells has hydroquinone oxidase activity", Biochim Biophys Acta 1412(1):66-77
	BU	Larm et al., 1994, "Up-regulation of the plasma membrane oxidoreductase as a prerequisite for the viability of human Namalwa rho 0 cells", J Biol Chem 269(48):30097-100
	BV	Lawen et al., 1994, "The universality of bioenergetic disease: the role of mitochondrial mutation and the putative inter-relationship between mitochondria and plasma membrane NADH oxidoreductase", Mol Aspects Med 15 Suppl:s13-27
	BW	Lenaz, 1998, "Role of mitochondria in oxidative stress and ageing", Biochim Biophys Acta 1366(1-2):53-67
	BX	Lenaz et al., 1998, "Oxidative stress, antioxidant defences and aging", Biofactors 8(3-4):195-204
	BY	Lenaz et al., 1997, "Mitochondrial complex I defects in aging", Mol Cell Biochem. 174(1-2):329-33
	BZ	Linnane et al., 1989, "Mitochondrial DNA mutations as an important contributor to ageing and degenerative diseases", Lancet 1(8639):642-5
	CA	Lockhart et al., 1996, "Expression monitoring by hybridization to high-density oligonucleotide arrays", Nat Biotechnol 14(13):1675-80
	CB	Miquel, 1992, "An update on the mitochondrial-DNA mutation hypothesis of cell aging", Mutat Res. 275(3-6):209-16
	CC	Miquel et al., 1980, "Mitochondrial role in cell aging", Exp Gerontol. 15(6):575-91
	CD	Morré et al., 1999, "Use of dipyrldyl-dithio substrates to measure directly the protein disulfide-thiol interchange activity of the auxin stimulated NADH: protein disulfide reductase (NADH oxidase) of soybean plasma membranes", Mol Cell Biochem 200(1-2):7-13
	CE	Morré et al., 1996, "Antitumor sulfonylurea-inhibited NADH oxidase of cultured HeLa cells shed into media", Biochim Biophys Acta 1280(2):197-206
	CF	Morré et al., 1999, "A multifunctional hydroquinone oxidase of the external cell surface and sera", Biofactors 9(2-4):179-87
	CG	Morré, 1998, <u>Plasma Membrane Redox Systems and their Role in Biological Stress and Disease</u> (Kluwer Academic Publishers, The Netherlands) pp. 121-156
	CH	Morré et al., 1995, "Capsaicin inhibits preferentially the NADH oxidase and growth of transformed cells in culture", Proc Natl Acad Sci U S A 92(6):1831-5
	CI	Morré, 1994, "Hormone- and growth factor-stimulated NADH oxidase", J Bioenerg Biomembr 26(4):421-33
	CJ	Morré et al., 1996, "Capsaicin inhibits plasma membrane NADH oxidase and growth of human and mouse melanoma lines", Eur J Cancer 32A(11):1995-2003

QW	CK	Morré et al., 1995, "The antitumor sulfonylurea N-(4-methylphenylsulfonyl)-N'-(4-chlorophenyl) urea (LY181984) inhibits NADH oxidase activity of HeLa plasma membranes", Biochim Biophys Acta 1240(1):11-7
O I P E J C I 2 1 JUL 28 2000 PATENT & TRADEMARK OFFICE	CL	Morré et al., 1997, "NADH oxidase activity from sera altered by capsaicin is widely distributed among cancer patients", Arch Biochem Biophys 342(2):224-30
	CM	Navarro et al., 1995, "A phospholipid-dependent NADH-coenzyme Q reductase from liver plasma membrane", Biochem Biophys Res Commun 212(1):138-43
	CN	Nohl et al., 1996, "Conditions allowing redox-cycling ubiquinone in mitochondria to establish a direct redox couple with molecular oxygen", Free Radic Biol Med 20(2):207-13
	CO	Ozawa, 1995, "Mechanism of somatic mitochondrial DNA mutations associated with age and diseases", Biochim Biophys Acta 271(1):177-89
	CP	Ozawa, 1997, "Genetic and functional changes in mitochondria associated with aging", Physiol Rev. 77(2):425-64
	CQ	Papa and Skulachev, 1997, "Reactive oxygen species, mitochondria, apoptosis and aging", Mol Cell Biochem 174(1-2):305-19
	CR	Pich et al., 1996, "Inhibitor sensitivity of respiratory complex I in human platelets: a possible biomarker of ageing", FEBS Lett. 380(1-2):176-8
	CS	Richter et al., 1988, "Normal oxidative damage to mitochondrial and nuclear DNA is extensive", Proc Natl Acad Sci U S A. 85(17):6465-7
	CT	Rossi, 1994, "Practical ribozymes. Making ribozymes work in cells", Curr Biol 4(5):469-71
	CU	Schena et al., 1995, "Quantitative monitoring of gene expression patterns with a complementary DNA microarray", Science 270(5235):467-70
	CV	Schon et al., 1996, Cellular Aging and Cell Death (J. Wiley & Sons, Inc, New York) pp. 19-34
	CW	Seddon et al., 1994, "Dietary carotenoids, vitamins A, C, and E, and advanced age-related macular degeneration", JAMA 272(18):1413-20
	CX	Shigenaga et al., 1994, "Oxidative damage and mitochondrial decay in aging", Proc Natl Acad Sci USA 91(23):10771-8
	CY	Soderberg et al., 1990, "Lipid compositions of different regions of the human brain during aging", J Neurochem 54(2):415-23
	CZ	Steinberg, 1997, "Low density lipoprotein oxidation and its pathobiological significance", J Biol Chem. 272(34):20963-6
	DA	Sugiyama, 1998, "HMG CoA reductase inhibitor accelerates aging effect on diaphragm mitochondrial respiratory function in rats", Biochem Mol Biol Int 46(5):923-31
	DB	Sugiyama et al., 1993, "Changes in skeletal muscle, heart and liver mitochondrial electron transport activities in rats and dogs of various ages", Biochem Mol Biol Int. 30(5):937-44
	DC	Syrový and Gutmann, 1970, "Changes in speed of contraction and ATPase activity in striated muscle during old age", Exp Gerontol. 5(1):31-5
	DD	Takahashi et al., 1995, "Reduction of ubiquinone in membrane lipids by rat liver cytosol and its involvement in the cellular defence system against lipid peroxidation", Biochem J 309 (Pt 3):883-90
	DE	Takahashi et al., 1996, "Characterization of NADPH-dependent ubiquinone reductase activity in rat liver cytosol: effect of various factors on ubiquinone-reducing activity and discrimination from other quinone reductases", J Biochem (Tokyo) 119(2):256-63
QW	DF	The Merck Index, 1983, p.9648

2QW	DG	Thomas et al., 1997, "Inhibition of LDL oxidation by ubiquinol-10. A protective mechanism for coenzyme Q in atherogenesis?", Mol Aspects Med 18 Suppl:S85-103
	DH	Vaillant et al., 1996, "Effectors of the mammalian plasma membrane NADH-oxidoreductase system. Short-chain ubiquinone analogues as potent stimulators", J Bioenerg Biomembr 28(6):531-40
	DI	Walls et al., 1994, "Protective effect of exogenous coenzyme Q against damage by adriamycin in perfused rat liver", Biochem Mol Biol Int 33(4):633-42
	DJ	Villalba et al., 1997, "Role of cytochrome b5 reductase on the antioxidant function of coenzyme Q in the plasma membrane", Mol Aspects Med 18 Suppl:S7-13
	DK	Webb, 1999, "Is Coenzyme Q10 for real?", Prevention, April:65
	DL	Yakes and Van Houten, 1997, "Mitochondrial DNA damage is more extensive and persists longer than nuclear DNA damage in human cells following oxidative stress", Proc Natl Acad Sci USA 94(2):514-9
	DM	Yoneda et al., 1995, "Oxygen stress induces an apoptotic cell death associated with fragmentation of mitochondrial genome", Biochem Biophys Res Commun 209(2):723-9.
2QW	DN	Zharova and Vinogradov, 1997, "A competitive inhibition of the mitochondrial NADH-ubiquinone oxidoreductase (complex I) by ADP-ribose", Biochim Biophys Acta 1320(3):256-64

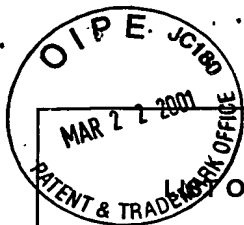
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Laurin Q. Wells

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OF REFERENCES CITED BY APPLICANT

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APPLICATION NO.

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Morré and Morré

FILING DATE

March 28, 2000

GROUP

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
XQW	DO	4,056,613	11/01/77	Bertazzoli et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	DP	2-763-850	12/04/98	France				X
XQW	DQ	WO 98/35658	08/20/98	PCT			Abstract	

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

XQW	DR	Beers et al.: "Merck Manual of Diagnosis and Therapy" Centennial Edition, Whitehouse Station, NJ: Merck Res. Lab, US, 1999, pages 2503-2506
	DS	Berkow et al.: "Merck Manual of Diagnosis and Therapy" Rahway, Merck & Co., US, 1987, page 2392
	DT	Calvani et al.: "Mitochondrial DNA in Human Pathology" 1993, Raven Press Ltd., New York, page 173 and pages 180-181
XQW	DU	Genova et al.: "Decrease of rotenone inhibition is a sensitive parameter of complex I damage in brain non-synaptic mitochondria of aged rats." FEBS Letters, vol. 410, no. 2-3, 1997, pages 467-469
	DV	Hildebrandt (ed): "Psychyrembel-Klinisches-Woerterbuch" Berlin: Walter de Gruyter, DE, vol. ED. 258, 1998, pages 47-49
XQW	DW	Kamikawa et al.: "Effects of Coenzyme Q-10 on Exercise Tolerance in Chronic Stable Angina Pectoris" American Journal of Cardiology, vol. 56, no. 4, 1985, pages 247-251
	DX	Mortensen et al.: "Long-term Coenzyme Q10 Therapy: A Major Advance in the Management of Resistant Myocardial Failure" Drugs Under Experimental and Clinical Research, vol. 11, no. 8, 1985, pages 581-583
	DY	Nagley et al.: "Mitochondrial DNA in Human Pathology" 1993, Raven Press Ltd., New York, page 138, 142, 143, and 146
	DZ	Rowland et al.: "Coenzyme Q10 Treatment Improves the Tolerance of the Senescent Myocardium to Pacing Stress in the Rat." Cardiovascular Research, vol. 40, no. 1, October 1998, pages 165-173
XQW	EA	Sherratt et al.: "Mitochondrial DNA Defects: A Widening Clinical Spectrum of Disorders" Clinical Science, Biochemical Society and the Medical Research Society, London, GB, vol. 92, March 1997, pages 225-235

EXAMINER

Hansen Q. Wells

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8/5/01

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
XOW	EB	WO 98/33495	8/6/98	PCT				
XOW	EC	WO 98/35660	8/20/98	PCT				

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XOW	ED	Coles et al., 1996, "Coenzyme Q ₁₀ and Lifespan Extension", Adv. AntiAging Med. 205-215						
	EE	Folkers et al., 1996, "Relevance of the Biosynthesis of Coenzyme Q ₁₀ and of the Four bases of DNA as a Rationale for the Molecular Causes of Cancer and a Therapy", Biochem. And Biophy. Res. Commun. 224:358-361						
	EF	Hata et al., 1981, "Immunological Responsiveness of Tumor Bearing Hosts 1. Effects of Coenzyme Q ₁₀ on 20 methyl Cholanthrene Carcinogenesis", J. of the Kansai Medical University, 33(1):59-72						
	EG	Iwasa et al., 1982, "Effect of Coenzyme Q-10 and Combined Therapy of Coenzyme Q ₁₀ and FT-207 Ftorafur For Mice Bearing Metha Tumor 2", J. of the Nat. Defense Med. College, 7(4):332-339						
	EH	Jolliet et al., 1998, "Plasma coenzyme Q ₁₀ concentrations in breast cancer: prognosis and therapeutic consequences", Int. J. of Clin. Pharm. And Therapeutics", 3699):506-509						
	EI	Lockwood et al., 1994, "Apparent Partial Remission of Breast Cancer in High Risk Patients Supplemented with Nutritional Antioxidants, Essential Fatty Acids and Coenzyme Q ₁₀ ", Molec. Aspects Med. 15: supp 231-240						
	EJ	Lockwood et al., 1995, "Progress on Therapy of Breast Cancer with Vitamin Q ₁₀ and the Regression of Metastases", Biochem and Biophys. Res. Comm. 212(1):172-177						
	EK	Ogura et al., 1982, "Anti Oxidative Effects of Vitamin B2 Butyrate on the Cardiac Mitochondrial Disorders Induced by Adriamycin" of Nutritional Science and Vitaminology, 28(4):329-334						
	EL	Porter et al., 1978, "Synthesis, Enzyme Inhibition, and Antitumor Activity of New 1,4-Benzoquinone Analogs of Coenzyme Q ₁₀ ", Bioorg. Chem. 7:333-350						
XOW	EM	Suzuki et al., 1986, "Effects of Immunostimulation with OK 432, Coenzyme Q ₁₀ or Levamisole on Dimethylhydrazine induced Colonic Carcinogenesis in Rats", Japanese Journal of Sugery 16(2):152-155						

EXAMINER

Lawson Q. Wells

DATE CONSIDERED

8/29/01

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